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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

1

of 7

Complete If Known

Application Number	10/678,741
Filing Date	October 3, 2003
First Named Inventor	Hassan Mostafavi
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned

Attorney Docket Number

VM7012094003

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
AA	US-3,861,807		01/21/75	Lescrenier	
AB	US-3,871,360		03/18/75	Van Horn et al.	
AC	US-3,952,201		04/20/76	Hounsfield	
AD	US-4,031,884		06/28/77	Henzel	
AE	US-4,262,306		04/14/81	Renner	
AF	US-4,463,425		07/31/84	Hirano et al.	
AG	US-4,994,965		02/19/91	Crawford et al.	
AH	US-5,080,100		01/14/92	Trotel	
AI	US-5,271,055		12/14/93	Hsieh et al.	
AJ	US-5,279,309		01/18/94	Taylor et al.	
AK	US-5,295,483		03/22/94	Nowacki et al.	
AL	US-5,315,630		05/24/94	Sturm et al.	
AM	US-5,389,101		02/14/95	Heilbrun et al.	
AN	US-5,394,875		03/07/95	Lewis et al.	
AO	US-5,446,548		08/29/95	Gerig et al.	
AP	US-5,538,494		07/23/96	Matsuda	
AQ	US-5,582,182		12/10/96	Hillsman	
AR	US-5,603,318		02/18/97	Heilbrun et al.	
AS	US-5,727,554		03/17/98	Kalend et al.	
AT	US-5,764,723		06/09/98	Weinberger et al.	
AU	US-5,784,431		07/21/98	Kalend et al.	
AV	US-5,823,192		10/20/98	Kalend et al.	
AW	US-5,836,954		11/17/98	Heilbrun et al.	
AX	US-5,954,647		09/21/99	Bova et al.	
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AZ	US-6,146,390		11/14/00	Heilbrun et al.	
BA	US-6,165,181		12/26/00	Heilbrun et al.	
BB	US-6,185,445B1		02/06/01	Knüttel	
BC	US-6,185,446B1		02/06/01	Carlsen, Jr.	
BD	US-6,198,959B1		03/06/01	Wang	
BE	US-6,370,217B1		04/09/02	Hu et al.	
BF	US-6,621,889B1		09/16/03	Mostafavi	
BG	2002/0023652 A1		02/28/02	Riaziat et al.	
BH	2003/0007593 A1		01/09/03	Heuscher et al.	

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Sheet	2	of	7	Attorney Docket Number	VM7012094003
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First Named Inventor	Hassan Mostafavi
Art Unit	Not Yet Assigned
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		Number - Kind Code ² (if known)			
BI	2003/0063292 A1		04/03/03	Mostafavi	
BJ	2003/0072419 A1		04/17/03	Bruder et al.	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
BK	DE 43 41 324 A 1		06/08/95	Germany		
BL	79458		09/29/89	Finland		
BM	WO 98/16151		04/23/98	PCT		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	BN	Peltola, Seppo M.Sc.; "Gated Radiotherapy To Compensate For Patient Breathing"; <i>Proceedings of the Eleventh Varian Users Meeting</i> , Macro Island, Florida; May 11-13, 1986.	
	BO	Mah, Katherine, et al.; "Time Varying Does Due To Respiratory Motion During Radiation Therapy Of The Thorax"; <i>Proceedings of the Eighth Int'l Conference on the Use of Computers In Radiation Therapy</i> , Toronto, Canada; July 9-12, 1984; pp. 294-298.	
	BP	Mori, Masayuki, et al.; "Accurate Contiguous Sections Without Breath-Holding On Chest CT: Value of Respiratory Gating and Ultrafast CT"; <i>AJR</i> :162, May 1994; pp. 1057-1062.	
	BQ	Robinson, Terry E., et al.; "Standardized High-Resolution CT of the Lung Using A Spirometer-Triggered Electron Beam CT Scanner"; <i>AJR</i> :172, June 1999; pp. 1636-1638.	
	BR	Luker, Gary D., et al.; "Ghosting of Pulmonary Nodules With Respiratory Motion: Comparison of Helical and Conventional CT Using an In Vitro Pediatric Model"; <i>AJR</i> :167, November 1996; pp. 1189-1193.	
	BS	Li, Debiao, et al.; "Coronary Arteries: Three-dimensional MR Imaging With Retrospective Respiratory Gating"; <i>Radiology</i> ; December 1996; Vol. 201; No. 3.; pp. 857-863.	
	BT	Kachelriess, Marc, et al.; "Electrocardiogram-correlated Image Reconstruction From Subsecond Spiral Computed Tomography Scans Of The Heart"; <i>Med. Phys.</i> 25(12); December 1998; pp. 2417-2431.	

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			Examiner Name	Not Yet Assigned
Sheet	3	of	7	Attorney Docket Number
VM7012094003				

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	BU	Tada, Takuhito, et al.; "Lung Cancer: Intermittent Irradiation Synchronized With Respiratory Motion-Results Of A Pilot Study"; <i>Radiology</i> , June, 1998; Vol. 207; No. 3; pp. 779-783.		
	BV	Solberg, Timothy D., et al.; "Feasibility of Gated IMRT"; 3 pps.		
	BW	Wong, John W., et al.; "The Use Of Active Breathing Control (ABC) To Reduce Margin For Breathing Motion"; <i>Int. J. Radiation Oncology Biol. Phys.</i> ; 1999; Vol. 44; No. 4; pp. 911-919.		
	BX	Mageras, Gig, et al.; "Initial Clinical Evaluation Of A Respiratory Gating Radiotherapy System"; <i>Dept. of Medical Physics, Memorial Sloan-Kettering Cancer Center</i> , New York; 4 pps.		
	BY	Yorke, Ellen, et al.; "Respiratory Gating Of Sliding Window IMRT"; <i>Dept. of Medical Physics, Memorial Sloan-Kettering Cancer Center</i> , New York; 4 pps.		
	CA	Keatley, Eric, et al.; "Computer Automated Diaphragm Motion Quantification in a Fluoroscopic Movie"; <i>Dept. of Medical Physics, Memorial Sloan-Kettering Cancer Center</i> , New York; 3 pps.		
	CB	Kubo, H. Dale, et al.; "Breathing-Synchronized Radiotherapy Program at the University of California Davis Cancer Center"; <i>Med. Phys.</i> 27(2); February 2000; pp. 346-353.		
	CC	Iwasawa, Tae, et al.; "Normal In-Plane Respiratory Motion of the Bilateral Hemidiaphragms Evaluated By Sequentially Subtracted Fast Magnetic Resonance Images"; <i>Journal of Thoracic Imaging</i> , 1999; Vol. 14, No. 2; pp. 130-134.		
	CD	Kim, W.S., et al.; "Extension of Cardiac and Respiratory Motion Cycles by Use of Projection Data and Its Applications to NMR Imaging"; <i>Magnetic Resonance in Medicine</i> 13, 1990; pp. 25-37.		
	CE	Woodard, Pamela K., et al.; "Detection of Coronary Stenoses on Source and Projection Images Using Three-Dimensional MR Angiography With Retrospective Respiratory Gating: Preliminary Experience"; <i>AJR</i> :170, April 1998; No. 4; pp. 883-888.		
	CF	Sinkus, Ralph, et al.; "Motion Pattern Adapted Real-Time Respiratory Gating"; <i>Magnetic Resonance in Medicine</i> 41; 1999; pp. 148-155.		
	CG	Weiger, Markus, et al.; "Motion-Adapted Gating Based on k-Space Weighting For Reduction of Respiratory Motion Artifacts"; <i>Magnetic Resonance in Medicine</i> 38; 1997; pp. 322-333.		
	CH	Wang, Yi, et al.; "Implications For The Spatial Resolution in Coronary Imaging"; <i>Magnetic Resonance in Medicine</i> 33; 1995; pp. 713-719.		
	CI	Ritchie, Cameron J., et al.; "Predictive Respiratory Gating: A New Method To Reduce Motion Artifacts on CT Scans"; <i>Radiology</i> , 1994; pp. 847-852; Vol. 190; No. 3.		

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Sheet 4 of 7 Attorney Docket Number VM7012094003

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Application Number	10/678,741
Filing Date	October 3, 2003
First Named Inventor	Hassan Mostafavi
Art Unit	Not Yet Assigned
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NON PATENT LITERATURE DOCUMENTS				
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	CJ	Kubo, H. Dale, et al.; "Potential and Role of a Prototype Amorphous Silicon Array Electronic Portal Imaging Device in Breathing Synchronized Radiotherapy"; <i>Med. Phys.</i> 26(11); November 1999; pp. 2410-2414.		
	CK	Kubo, Hideo D., et al.; "Respiration Gated Radiotherapy Treatment: A Technical Study"; <i>Phys. Med. Biol.</i> (1996) Vol. 41; pp. 83-91.		
	CL	J.M. Balter et al.; "Uncertainties In CT-Based Radiation Therapy Treatment Associated With Patient Breathing"; <i>Int. J. Radiat. Oncol., Biol., Phys.</i> 36; pp. 167-174 (August 1996).		
	CM	S.C. Davies et al.; "Ultrasound Quantitation Of Respiratory Organ Motion in The Upper Abdomen"; <i>Br. J. Radiol.</i> 67; pp. 1096-1102 (November 1994).		
	CN	R.L. Ehman et al.; "Magnetic Resonance Imaging With Respiratory Gating: Techniques and Advantages"; <i>Am. J. Roentgenol.</i> 143; pp. 1175-1182 (December 1984).		
	CO	H. Frölich et al.; "A Simple Device For Breath-Level Monitoring During CT"; <i>Radiology</i> 156; p. 235 (July 1985).		
	CP	R.M. Henkelman et al.; "How Important Is Breathing In Radiation Therapy Of The Thorax?"; <i>Int. J. Radiat. Oncol., Biol., Phys.</i> 8; pp. 2005-2010 (November 1982).		
	CQ	M.B.M. Hofman et al.; "MRI Of Coronary Arteries: 2D Breath-Hold vs. 3D Respiratory-Gated Acquisition"; <i>J. of Comp. Assisted Tomography</i> 19; pp. 56-62 (Jan./Feb. 1995).		
	CR	G.J. Kutcher et al.; "Control, Correction, and Modeling Of Setup Errors and Organ Motion"; <i>Semin. Radiat. Oncol.</i> 5; pp. 134-145 (April 1995).		
	CS	J. Hanley et al.; "Deep Inspiration Breath-Hold Technique For Lung Tumors: The Potential Value of Target Immobilization And Reduced Lung Density In Dose Escalation"; <i>Int. J. Radiat. Oncol., Biol. Phys.</i> 45; pp. 603-611 (October 1999).		
	CT	L.S. Johnson et al.; "Initial Clinical Experience With A Video-Based Patient Positioning System"; <i>Int. J. Radiat. Oncol. Biol. Phys.</i> 45; pp. 205-213; (August 1999).		
	CU	H.W. Korin et al.; "Respiratory Kinematics Of The Upper Abdominal Organs: A Quantitative Study"; <i>Magn. Reson. Med.</i> 23; pp. 172-178 (January 1992).		
	CV	H.D. Kubo et al.; "Respiration Gated Radiotherapy Treatment: A Technical Study"; <i>Phys. Med. Biol.</i> 41; pp. 83-91; (1996).		
	CW	H.D. Kubo et al.; "Potential And Role Of A Prototype Amorphous Silicon Array Electronic Portal Imaging Device In Breathing Synchronized Radiotherapy"; <i>Med. Phys.</i> 26; pp. 2410-2414; (November 1999).		

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	CX	C.E. Lewis et al.; "Comparison Of Respiratory Triggering And Gating Techniques For The Removal Of Respiratory Artifacts In MR Imaging"; <i>Radiology</i> 160; pp. 803-810; (September 1986).	
	CY	D. Li et al.; "Coronary Arteries: Three-Dimensional MR Imaging With Retrospective Respiratory Gating"; <i>Radiology</i> 201; pp. 857-863 (December 1996).	
	CZ	M.A. Moerland et al.: "The Influence Of Respiration Induced Motion Of The Kidneys On The Accuracy Of Radiotherapy Treatment Planning, A Magnetic Resonance Imaging Study", <i>Radiotherapy Oncol.</i> 30, pp. 150-154 (1994).	
	DA	K. Ohara et al.; "Irradiation Synchronized With Respiration Gate"; <i>Int. J. Radiat. Oncol., Biol. Phys.</i> 17; pp. 853-857; (October 1989).	
	DB	J.N. Oshinski et al.; "Two-Dimensional Coronary MR Angiography Without Breath Holding"; <i>Radiology</i> 201; pp. 737-743; (December 1996).	
	DC	C.R. Ramsey et al.; "A Comparison Of Beam Characteristics For Gated And Nongated Clinical X-Ray Beams"; <i>Med. Phys.</i> 26; pp. 2086-2091; (October 1999).	
	DD	C.R. Ramsey et al.; "Clinical Efficacy Of Respiratory Gated Conformal Radiation Therapy", <i>Medical Dosimetry</i> 24; pp. 115-119; (1999).	
	DE	F. Lethimonnier et al.; "Three-Dimensional Coronary Artery MR Imaging Using Prospective Real-Time Respiratory Navigator and Linear Phase Shift Processing: Comparison With Conventional Coronary Angiography", <i>Magn. Reson. Imaging</i> 17; pp. 1111-1120; (1999).	
	DF	R.J. van Geuns et al.; "Magnetic Resonance Imaging Of The Coronary Arteries: Clinical Results From Three Dimensional Evaluation Of A Respiratory Gated Technique"; <i>Heart</i> 82; pp. 515-519; (October 1999).	
	DG	C.J. Ritchie et al.; "Predictive Respiratory Gating: A New Method To Reduce Motion Artifacts On CT Scans"; <i>Radiology</i> 190; pp. 847-852; (March 1994).	
	DH	R.D. Rogus et al.; "Accuracy Of A Photogrammetry-Based Patient Positioning and Monitoring System For Radiation Therapy"; <i>Med. Phys.</i> 26; pp. 721-728; (May 1999).	
	DI	K. Cho et al.; "Development Of Respiratory Gated Myocardial SPECT System", <i>J. Nucl. Cardiol.</i> 6; pp. 20-28; (Jan./Feb. 1999).	
	DJ	C.S. Ross et al.; "Analysis Of Movement Of Intrathoracic Neoplasms Using Ultrafast Computerized Tomography"; <i>Int. J. Radiat. Oncol., Biol., Phys.</i> 18; pp. 671-677; (March 1990).	
	DK	V.M. Runge et al.; "Respiratory Gating In Magnetic Resonance Imaging at 0.5 Tesla"; <i>Radiology</i> 151; pp. 521-523; (May 1984).	

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	DM	T.S. Sachs et al.; "Real-Time Motion Detection In Spiral MRI Using Navigators", <i>Magn. Reson. Med.</i> 32; pp. 639-645; (November 1994).
	DN	L.H. Schwartz et al.; "Kidney Mobility During Respiration"; <i>Radiother. Oncol.</i> 32; pp. 84-86; (1994).
	DO	M. Paivansalo Suramo et al.; "Crano-caudal Movements Of The Liver, Pancreas And Kidneys In Respiration", <i>Acta Radiol. Diagn.</i> 2; pp. 129-131; (1984).
	DP	C.R. Ramsey et al.; "Clinical Efficacy Of Respiratory Gated Conformal Radiation Therapy"; <i>Med. Dosim.</i> 24; pp. 115-119; (1999).
	DQ	J.W. Wong et al.; "The Use Of Active Breathing Control (ABC) To Reduce Margin For Breathing Motion"; <i>Int. J. Radiat. Oncol., Phys.</i> 44; pp. 911-919; (July 1999).
	DR	H.D. Kubo et al.; "Compatibility Of Varian 2100C Gated Operations With Enhanced Dynamic Wedge And IMRT Dose Delivery"; <i>Med. Phys.</i> 27; pp. 1732-1738; (August 2000).
	DS	H. Shirato et al.; "Four-Dimensional Treatment Planning And Fluoscopic Real-Time Tumor Tracking Radiotherapy For Moving Rumor"; <i>Int. J. Radiat. Oncol., Biol., Phys.</i> 48; pp. 435-442; (September 2000).
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Complete If Known

Application Number	10/678,741
Filing Date	October 3, 2003
First Named Inventor	Hassan Mostafavi
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned

Attorney Docket Number

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NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
	DZ	G. Mageras et al.; "Initial Clinical Evaluation Of A Respiratory Gating Radiotherapy System"; <i>22nd Annual EMBS International Conference, Chicago, IL</i> ; pp. 2124-2127; (July 23-28, 2000).		
	EA	Ellen Yorke et al.; "Respiratory Gating Of Sliding Window IMRT"; <i>22nd Annual EMBS International Conference, Chicago, IL</i> ; pp. 2118-2121; (July 23-28, 2000).		
	EB	Jolesz, Ferenc M.D., et al.; "Image-Guided Procedures And The Operating Room Of The Future"; <i>Radiology: SPL Technical Report #48</i> ; May 1997; 204:601-612.		

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